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REPLY UNDER 37 C.F.R. 1.116
EXPEDITED PROCEDURE
EXAMINING GROUP 2155
PATENT
APPLICATION 10/676,485
ATTORNEY DOCKET 1014-041

AMENDMENTS

AMENDMENTS TO THE CLAIMS

1.   (Currently Amended) A method of increasing a quality of streamed media information, comprising:

    streaming media information from a media server to a ~~user device~~gateway proxy device;

    storing a first copy of the media information in a storage device not directly connected to the media server, the first copy of the media information missing information ~~specified to be comprised by the~~present in a complete copy of the media information, the first copy of the media information automatically requested responsive to a user request for the media information, ~~the user request for a first version~~the first copy of the media information associated with a first bandwidth, the gateway proxy device adapted to transmit the first copy of the media information responsive to the user request, the gateway proxy device adapted to automatically request a second ~~the~~copy of the media information from the media server, the automatic request responsive to a meta tag that identifies other versions of the media information that are present on the media server, the second copy of the media information being a second version of the media information associated with a second bandwidth;

    sending a request to the media server for the missing information ~~specified to be comprised by the media information~~, the request responsive to an automatic determination that network congestion is below a predetermined threshold, the network congestion determined via a measured delay of a media server ping;

    receiving the missing information ~~specified to be comprised by the media information~~;
and

    storing the missing information ~~specified to be comprised by the media information in the~~to form a third copy of the media information in the storage device.

2.   (Previously Presented) The method of claim 1, further comprising:

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identifying one or more versions of the media information stored in the storage device that are missing information specified to be comprised by the media information; and

performing the sending and receiving steps for each of the one or more versions of the media information.

3.   (Currently Amended) The method of claim 2, wherein identifying the one or more versions of the media information includes at least one of determining if a list of missing data packets is associated with the one or more versions of the media information and determining if a missing data packet flag is set.

4.   (Currently Amended) The method of claim 1, wherein sending a the request to the media server includes identifying missing data packets in the media information and sending a request for only the identified missing data packets.

5.   (Currently Amended) The method of claim 1, wherein sending a the request to the media server includes requesting transmission of the entire media information.

6.   (Original) The method of claim 5, wherein storing the missing information includes rewriting the entire retransmitted media information over the copy of the media information in the storage device.

7.   (Original) The method of claim 5, wherein storing the missing information includes:
storing the entire retransmitted media information in the storage device;
comparing a number of missing data packets in the entire retransmitted media information with a number of missing data packets in the copy of the media information; and

retaining either the entire retransmitted media information or the copy of the media information in the storage device, whichever has fewer missing data packets.

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8.   (Original) The method of claim 1, wherein the media information includes at least one of video and audio information.

9.   (Currently Amended) The method of claim 1, wherein the missing information specified to be comprised by the media information is identified while the media information is streamed from the media server to ~~the~~ a user device.

10.   (Currently Amended) The method of claim 9, wherein the ~~sending a request, receiving the missing information and storing the missing information steps are performed immediately upon identification of the missing information~~ gateway proxy device is adapted to automatically determine the age of the first copy of the media information and determine when to request an periodic update of the first copy of the media information.

11.   (Currently Amended) The method of claim 9, wherein the ~~sending a request, receiving the missing information and storing the missing information steps are performed~~ first copy of the media information is periodically automatically updated.

12.   (Currently Amended) An apparatus that increases a quality of streamed media information, comprising:
a controller; and
a storage device not directly connected to a media server, wherein media information is streamed from the media server to ~~a user~~ the storage device and a copy of the media information is stored in the storage device, the copy automatically requested responsive to a user request for the media information and a meta tag that identifies other versions of the media information that are present on the media server, the user request for a first version of the media information associated with a first bandwidth, the copy a second version of the media information associated with a second bandwidth, the first version of the media information missing information ~~specified to be comprised by~~ present in a complete version of the media information, and wherein

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the controller sends a request to the media server for the missing information ~~specified to be~~ ~~comprised by the media information~~, receives the missing information ~~specified to be comprised~~ ~~by the media information~~, and stores the missing information ~~specified to be comprised by the~~ ~~media information,~~ in the storage device, the request responsive to an automatic determination that network congestion is below a predetermined threshold, <u>the network congestion determined</u> <u>via a measured delay of a media server ping</u>.

13. (Currently Amended) The apparatus of claim 12, wherein the controller identifies one or more versions of the media information stored in the storage device missing information specified to be comprised by the media information and sends ~~the~~ <u>a</u> request for each of the one or more versions of the media information.

14. (Original) The apparatus of claim 13, wherein the controller identifies one or more versions of the media information by at least one of determining if a list of missing data packets is associated with the one or more versions of the media information and determining if a missing data packet flag is set.

15. (Previously Presented) The apparatus of claim 12, wherein the controller sends the request to the media server by identifying missing data packets in the media information and the request is for only the identified missing data packets.

16. (Currently Amended) The apparatus of claim 12, wherein the controller sends the request to the media server by requesting <u>an entire</u> retransmission of the ~~entire~~ media information.

17. (Previously Presented) The apparatus of claim 16, wherein the controller stores the missing information specified to be comprised by the media information in the storage

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device by rewriting the entire retransmitted media information over the copy of the media information in the storage device.

18.   (Previously Presented) The apparatus of claim 16, wherein the controller stores the missing information specified to be comprised by the media information in the storage device by:

storing the entire retransmitted media information in the storage device;

comparing a number of missing data packets in the entire retransmitted media information with a number of missing data packets in the copy of the media information; and

retaining either the entire retransmitted media information or the copy of the media information in the storage device, whichever has fewer missing data packets.

19.   (Original) The apparatus of claim 12, wherein the media information includes at least one of video and audio information.

20.   (Currently Amended) The apparatus of claim 12, wherein the controller identifies the missing information specified to be comprised by the media information while the media information is streamed from the media server to ~~the~~ a user device.

21.   (Currently Amended) The apparatus of claim 20, wherein the controller ~~sends the request, receives the missing information specified to be comprised by the media information and stores the missing information specified to be comprised by the media information immediately upon identification of the missing information~~ is adapted to automatically determine the age of the first copy of the media information and determine when to request a periodic update of the first copy of the media information.

22.   (Currently Amended) The apparatus of claim 20, wherein the first version of the media information is ~~controller sends the request, receives the missing information specified to~~

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~~be comprised by the media information and stores the missing information specified to be comprised by the media information~~ periodically automatically updated.